

64,600-093; ERSO 900056
Serial Number 10/038,994

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph 0033 as follows.

0033 Shown in Fig. 1 is a cover plate 12 which covers a substrate (which is not specifically illustrated) which in part comprises the microfluidic mixing apparatus of the present invention. As is further illustrated within the schematic plan-view diagram of Fig. 1, and as is formed within the substrate beneath the cover plate 12, is an aperture 11 into which in turn terminates at least a pair of reagent supply channels 13a and 13b which is also formed within the substrate. As is further illustrated within the schematic plan-view diagram of Fig. 1, each of the pair of reagent supply channels 13a and 13b terminates at the aperture 11 obliquely (in particular, only obliquely) such that when a pair of reagents R1 and R2 is introduced into the aperture 11 through the corresponding pair of reagent supply channels 13a and 13b, the pair of reagents R1 and R2 mixes in a swirling fashion. As is finally illustrated within the schematic plan-view diagram of Fig. 1, there is shown an outlet port 14 which allows a mixture of the pair of reagents R1 and R2 to exit from the aperture 11 in a direction perpendicular to a plane of the substrate.